ATI FIREGL™
WORKSTATION GRAPHICS ACCELERATORS

accelerating

AUTODESK® 3DS MAX®

Image Courtesy of Autodesk and Digital Dimension
A Cinderella Story ©2004 Copyright Warner Brothers

ATI FireGL with Avivo

- Optimized and certified for Autodesk 3ds Max
- Powered by ATI's next generation FireGL™ graphics processor unit with Avivo™ Technology
- Scalable ultra-threaded architecture with multiple parallel geometry engines and pixel shader processors
- Full Shader Model 3.0 support for vertex and pixel shaders
- Up to 1GB GDDR3 graphics memory and 512-bit ring bus memory controller
- High Dynamic Range (HDR) rendering with 8-bit, 10-bit, and 16-bit per RGB color component support
- High fidelity display engine capable of producing over one billion colors
- Up to two Dual Link outputs each ideal for driving 30-inch cinema / widescreen displays (2560 x 1600)
- Direct access to ATI's dedicated workstation technical support team

Autodesk®

Whether you're using Autodesk 3ds Max for creating eye-catching film and television animation, designing cutting-edge games, or visualizing distinctive industrial designs, ATI FireGL™ desktop and mobile workstation graphics accelerators with Avivo™ Technology deliver ground-breaking features and performance for the most demanding workstation users.

With full Shader Model 3.0 support accelerated in hardware, the ATI FireGL is able to accurately render complex shader effects in real-time inside the viewport window when modeling, texturing, or animating. This seamless integration of fully interactive photorealistic rendering dramatically increases productivity and decreases production time. Featuring a scalable ultra-threaded architecture with true 128-bit floating point precision, parallel geometry engines and pixel shader processors, and ultra efficient ring bus memory controller, ATI FireGL accelerators provide the graphics horsepower for today's professional applications and tomorrow's technology innovations.

"Professional 3D artists expect the most robust and feature-rich solutions from Autodesk and our hardware partners. Through a extensive certification process, we ensure that the combination of the FireGL accelerators with Maya and 3ds Max gives artists an extremely powerful and stable work environment."

Rob Hoffmann, Senior 3D Product Marketing Manager, Autodesk

Designed with a 10-bit display pipeline and a High Dynamic Range (HDR) 16-bit per RGB color component output capable of producing over one trillion colors for the most vibrant visual fidelity, it's no wonder that 3ds Max professionals rely on ATI FireGL workstation accelerators with Avivo Technology for ultra fast processing of complex datasets, real-time cinematic-quality rendering, and superior value.

ATI FireGL workstation graphics accelerators are thoroughly tested and certified with 3ds Max plus all major Digital Content Creation (DCC) and Computer Aided Design (CAD) applications to ensure optimized performance and compatibility. A single unified driver is available for all desktop and mobile FireGL products from the ultra high-end to the entry level, simplifying system administration and maintenance. ATI offers direct customer access to a dedicated workstation technical support team. These proven products are available worldwide from workstation OEMs, system integrators and ATI channel partners. For more information on how to accelerate your next 3ds Max production, please visit www.ati.com/FireGL.

ATI FIREGL™
WORKSTATION GRAPHICS ACCELERATORS

Product Specifications

FIREGL WITH AVIVO PRODUCT OVERVIEW

Overview

- Powered by advanced ATI FireGL™ Graphics Processor Unit (GPU) with Avivo™ Technology
- Scalable ultra-threaded architecture with fast dynamic branching and high performance parallel processing
- Multiple parallel geometry engines and pixel shader processors
- Full Shader Model 3.0 support
- Up to 1GB GDDR3 graphics memory and 512-bit ring-bus memory controller
- 128-bit full floating point precision
- Native high bandwidth PCI Express x16 lane support

ATI Avivo™ Technology

- 16-bit per RGB color component High Dynamic Range (HDR) output capable of over one trillion colors
- Full 10-bit display pipeline
- Advanced support for 8-bit, 10-bit, and 16-bit per RGB color component

System Requirements

- PCI Express® based workstation with available x16 lane graphics slot
- Connection to the system power supply (adapter included [1])
- 450-Watt power supply or greater (assumes fully loaded system [2])
- 512MB of system memory
- Installation software requires CD-ROM drive

Display Capabilities

- Dual DVI-I outputs support any combination of digital and analog displays
- Independent multi-monitor resolution and refresh rate selection
- Dual Link outputs ideal for driving 30-inch cinema / widescreen (2560 x 1600) displays [3]
- Individual Dual Link output capable of ultra-high resolutions up to 9 Megapixels (3840 x 2400)
- Stereoscopic 3D output connector with quad buffer support
- Dual VGA analog support [4]
- HD Component Video (YPrPb) output [5]

ATI Warranty and Support

- Enterprise class support
- Three year limited product repair/replacement warranty
- Direct toll free phone and email access to dedicated workstation technical support team [6]

API and OS Support

- OpenGL® 2.0 with OpenGL Shading Language
- Microsoft® DirectX® 9.0 with DX9 HLSL
- Windows® XP, Windows XP64 and Windows 2000
- Linux® 32 and Linux 64 [7]
- Windows Vista™ ready

WORKSTATION MARKETS AND CERTIFICATIONS

Computer Aided Design

- Computer Aided Design (CAD)
- Architecture / Engineering / Construction (AEC)
- Medical Imaging
- Computational Fluid Dynamics
- Visual Simulation
- GIS / Mapping
- Oil & Gas

Certifications

- ABAQUS®
- Altair® Engineering Hyperworks®
- ANSYS Workbench™
- Autodesk® AutoCAD®, Inventor®, VIZ and Architectural Desktop
- Autodesk® AliasStudio™
- Bentley MicroStation®
- ColCreate® OneSpace Designer Modeling
- Dassault Systemes CATIA®, ENOVIA® and SolidWorks®
- DELCAM™ PowerSHAPE™
- ESRI ArcGIS™
- ICEM® Surf
- MSC.Software® MSC.Patran® and MSC.Nastran™
- Nemetschek Allplan
- PTC® Pro/CONCEPT™ and Pro/ENGINEER® Wildfire™
- Schlumberger Petrel
- UGS I-deas® NX, UGS NX, Solid Edge™ and Teamcenter Visualization

Digital Content Creation

- Game Development
- Cinematic Visual Effects
- Broadcast and Film Animation
- Virtual Set Design
- Compositing
- Digital Editing and Publishing

Certifications

- Adobe® After Effects®
- Adobe® Audition®
- Adobe® Encore™ DVD
- Adobe® Premiere® Pro
- Adobe® PhotoShop® CS
- Autodesk® Maya®
- Autodesk® MotionBuilder
- Autodesk® 3ds Max®
- Autodesk® Combustion®
- Avid SOFTIMAGE® | XSI® and Avid Xpress Pro
- Maxon Cinema 4D
- Maxon BodyPaint 3D
- NewTek LightWave 3D®
- SensAble Technologies ClayTools™
- SensAble Technologies FreeForm® Concept™
- SensAble Technologies FreeForm® Modeling Plus™
- Side Effects Software™ Houdini™

ATI FireGL™ Workstation Graphics Accelerators with Avivo Technology

	MEMORY			GRAPHICS PROCESSING UNIT						AVIVO™ TECHNOLOGY			DISPLAY CAPABILITIES			
	Memory Configuration	Ring Bus Memory Controller Interface	Memory Bandwidth (GB Per Second)	Ultra Threaded Architecture	Parallel Geometry Engines	Vertices Per Second	Pixel Shader Processors	Pixel Operations Per Second	Full Shader Model 3.0 Support	Full 10-bit Display Pipeline	High Dynamic Range Rendering Support	Per Pixel Color Component Output	Display Output Connectors	Dual Link Outputs	HD Component Video Output	Stereoscopic 3D Output
FireGL V3300	128MB	–	6.4	✔	2	300M	4	2.4G	✔	✔	✔	8, 10, 16-bit	2 DVI-I			
FireGL V3400	128MB	256-bit	16.0	✔	5	625M	12	6.0G	✔	✔	✔	8, 10, 16-bit	2 DVI-I	1	✔	
FireGL V5200	256MB	256-bit	22.4	✔	5	750M	12	7.2G	✔	✔	✔	8, 10, 16-bit	2 DVI-I	2	✔	
FireGL V7200	256MB	512-bit	41.6	✔	8	1200M	16	9.6G	✔	✔	✔	8, 10, 16-bit	2 DVI-I	2	✔	✔
FireGL V7300	512MB	512-bit	41.6	✔	8	1200M	16	9.6G	✔	✔	✔	8, 10, 16-bit	2 DVI-I	2	✔	✔
FireGL V7350	1GB	512-bit	41.6	✔	8	1200M	16	9.6G	✔	✔	✔	8, 10, 16-bit	2 DVI-I	2	✔	✔

For additional information, visit ati.com/firegl

[1] Required for V7200, V7300, and V7350 models only
[2] 350-Watt power supply required for V3300, V3400, and V5200 models
[3] See product matrix for specific Dual Link configuration
[4] VGA output supported through DVI-I to VGA adapters included with product
[5] HD Component Video (YPrPb) output adapter included with product
[6] Toll free hotline available in North America
[7] Linux drivers can be downloaded from ati.com/FireGL